PATENT COOPERATION TREATY

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Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 000054288	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No.	Internal and Clinia and Clinia					
PCT/EP2004/000706	International filing date (day/month/year)	Priority date (day/month/year)				
-	28.01.2004	17.02.2003				
International Patent Classification (IPC) or national classification and IPC C14C 9/02						
Applicant BASF AKTIENGESELLSCHA	AFT					
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of	5 sheets, including	ng this cover sheet.				
3. This report is also accompanied by Al	NNEXES, comprising:					
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:				
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental						
l <u>-</u>	Box.					
		, containing a sequence listing and/or tables				
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relati	ng to the following items:					
Box No. I Basis of the	report					
Box No. II Priority						
Box No. III Non-establi	shment of opinion with regard to novelty, inver	ntive step and industrial applicability				
Box No. IV Lack of uni	ty of invention					
Box No. V Reasoned st	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain doc	uments cited					
Box No. VII Certain defe	ects in the international application					
Box No. VIII Certain observations on the international application						
Date of submission of the demand	Date of completion of	his report				
Name and mailing address of the IPEA/	Authorized officer					
Facsimile No	TalashanaN					

International application No.

PCT/EP2004/000706

Box	No. I	Basis of the report		
1.	With reg	ard to the language, this report is based on the internation	al application in the language in which it was filed, unless otherwise	
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:			
	<u> </u>	international search (Rule 12.3 and 23.1(b))		
	F	publication of the international application (Rule 12.4)		
	With mo	international preliminary examination (Rule 55.2 and/o		
2.	receiving	g Office in response to an invitation under Article 14 are	report is based on (replacement sheets which have been furnished to the referred to in this report as "originally filed" and are not annexed to	
	the	e international application as originally filed/furnished		
	the	e description:		
	pag	ges <u>1-25</u>	as originally filed/furnished	
	pa	ges*	received by this Authority on	
	pa	ges*	received by this Authority on	
	the	e claims:		
	no	s. <u>1-17</u>	as originally filed/furnished	
	no	s.*	as amended (together with any statement) under Article 19	
	no	s.*		
	no	s.*		
	the	e drawings:		
	she	eets	as originally filed/furnished	
	she	eets*	· · · · · · · · · · · · · · · · · · ·	
	she	eets*	received by this Authority on	
	a s	sequence listing and/or any related table(s) – see Supplement		
3.	Th	ne amendments have resulted in the cancellation of:		
	Ĺ	the description, pages		
ļ		the claims, nos.		
		the drawings, sheets/figs		
		1		
4.	The the		ments annexed to this report and listed below had not been made alice.	
	<u>_</u>	the description, pages		
		1		
		the sequence listing (specify):		
		any table(s) related to acquence listing (sure of)		
	<u>If</u> item 4	applies, some or all of those sheets may be marked "supe		

International application No.
PCT/EP2004/000706

Bo	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement				
	Novelty	(N)	Claims	1-17	YES
			Claims		NO
	Inventive	e step (IS)	Claims	1-17	YES
			Claims		NO
	Industria	l applicability (IA)	Claims	1-17	YES
			Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1: EP-A-1 087 021 (cited in the application)

1. Novelty (PCT Article 33(2)) / Inventive step (PCT Article 33(3)

The subject matter of the present claims 1-17 is novel over the prior art as cited in the international search report.

None of the documents cited in the international search report discloses a <u>formulation</u> that contains <u>polysiloxane(s)</u> containing carboxyl <u>groups</u>, <u>polysiloxane(s)</u> free from carboxyl groups and at least one <u>emulsifier</u>, a method for the production thereof, a method for hydrophobing leather and pelts using said formulation and leather or pelts thus treated.

The subject matter of the present claims 1-17 also involves an inventive step, since D1, which can be regarded as the closest prior art, does not, taken

International application No.
PCT/EP2004/000706

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

either alone or in combination with any other document cited in the international search, contain any indication of the claimed method for the following reasons:

D1 discloses a leather treatment agent for hydrophobing and retanning leather, said agent containing polysiloxane that contains carboxyl groups, a polyacrylate, liquid paraffin and N-laurylsarcosine as emulsifier.

The impregnation formulation claimed in the present claims differs from the formulation known from D1 by virtue of the additional polysiloxane components that are free of carboxyl groups.

The technical problem of interest lies in the development of a method for hydrophobing leather, with which hydrophobic leather with an even colour can be obtained using cheaper polysiloxanes.

The above problem was solved using the aforementioned formulations, chrome tanned leather being treated in the retanning stage using an aqueous emulsion that contains, in addition to polysiloxanes that contain carboxyl groups and polysiloxanes that are free of carboxyl groups, N-oleyl sarcosine, triglyceride, NaOH and paraffin (emulsion 1.1, table 1). Leather is obtained which absorbs less water, is more flexible and has a more even colour (leather 3.1, table 2) than similar leathers which were also treated with an

International application No.
PCT/EP2004/000706

	FC1/ EF2004/ 000/08
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	emulsion, but with one that does not contain
	polysiloxane that is free of carboxyl groups
	(leather V3.5, table 2).
	Since no other document renders obvious the
	claimed method for hydrophobing leather, an
	inventive step is acknowledged in respect of the
	subject matter of the application.
2.	Industrial applicability (PCT Article 33(4))
	The application concerns a polysiloxane-containing
	emulsion for hydrophobing leather and pelts and is
	therefore industrially applicable.